

Product datasheet for **TA399795**

CENPE Mouse Monoclonal Antibody [Clone ID: CA8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CA8
Applications:	ELISA, FC
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	The original mouse parental antibody 118G03 was generated by immunizing SJL mice with recombinant human BCMA/TNFRSF17-Fc chimera (R&D 193-Fc) by using the RIMMS method (Rapid immunization multiple sites). A chimeric version of this antibody was generated and it is called CA8.
Specificity:	<p>This antibody binds human and cynomolgus monkey BCMA and does not bind TACI or BAFF-R proteins. BCMA acts as a receptor for TNFSF13B/BLyS/BAFF and TNFSF13/APRIL. BCMA expression is highest on terminally differentiated B cells. BCMA is involved in mediating the survival of plasma cells for maintaining long-term humoral immunity. It also activates NF-kappa-B and JNK. The expression of BCMA has been linked to a number of cancers, autoimmune disorders, and infectious diseases.</p> <p>The binding characterization of this antibody towards human and cynomolgus monkey recombinant BCMA was done using ELISA (US9273141). The binding of the antibody to membrane bound BCMA expressed on HEK293, H929, OPM-2, JJN-3 and U266 cells was done using flow cytometry (US9273141). This antibody neutralizes binding of both BCMA ligands BAFF and APRIL, and subsequently blocks the induction of NF-kB signaling cascades (PMID: 26370838). The EC50 values for chimeric CA8 were calculated to be 0.695 µg/mL and 0.773 µg/mL respectively (US9273141). This antibody neutralized both BAFF and APRIL induced NfkappaB cell signaling in H-929 cells. This antibody was also reported to kill BCMA expressing ARH77 cells via ADCC. This antibody was also used in the generation of an antibody-drug conjugate for possible application in the treatment of multiple myeloma (US9273141).</p>
Formulation:	PBS with 0.02% Proclin 300.



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Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Database Link:	Q02224
Synonyms:	118G03; B-cell maturation protein; BCM; CD269; S307118G03; TNFRSF17; Tumor necrosis factor receptor superfamily member 17